

Solus Video Management System (VMS)

Turnkey Solution for 8, 16, 24 and 32 Configurations



- **Robust, Feature-Rich Turnkey, Single System Video Management System**
- **Supports multiple video compressions including H.264, MPEG4, and MJPEG**
- **Greater flexibility in viewing, recording, and exporting audio and video**
- **Integrates with existing legacy CCTV equipment and hundreds of third party IP cameras and encoders**
- **Provides multi-level user access rights**
- **Interactive System Administration Dashboard**

Feature Rich, High Performance VMS DVTel's Entry Level, Single Server Turnkey Solution

DVTel's Solus VMS is an open standards, networked-based, turnkey, software and hardware system that uses the latest technology advancements to create the most user-friendly solution on the market today.

One complete package replaces the antiquated CCTV matrix switch, multiplexer, and DVR/NVR and gives you the power of a cutting-edge IP-based physical security solution.

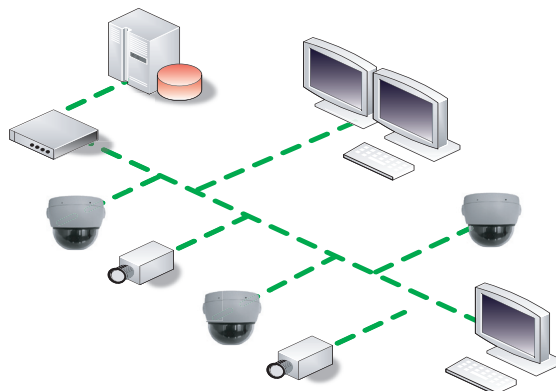
Solus VMS is an IP-based, open platform software and hardware solution that comes in 8, 16, 24 and 32 configurations.

It works with the most popular brands of IP cameras and encoders. With Solus VMS, you have the ease of use of plug-and-play system, but you are not locked into proprietary hardware.

Solus gives you all the tools you need to view, capture, record, analyze, and store high quality video and audio. Anytime, anywhere.

Digital to its core, Solus VMS can be either digital or analog at the edge. You can view live and recorded images on a PC monitor or an analog CCTV monitor. Control camera selection and PTZ camera operation from a PC keyboard and mouse or from a traditional CCTV keyboard. Feed the system with IP networked cameras or traditional analog cameras. Whether the data is analog or digital, the Solus VMS engine is 100% digital.

With four packages available, it is easy to find the solution that best fits the needs of the small to mid-sized user.



With DVTel's Solus VMS, you get the ease of a stand-alone solution with the power of the iSOC platform and the peace of mind that goes with DVTel's experience in networked based solutions.

Solus VMS

Turnkey, Single Server VMS

System Features and Functionality

Live Video Monitoring

- Cameras can be monitored using computer monitors displaying the ControlCenter client application and analog monitors connected to the network via hardware decoders.
- State-of-the-art On Screen Display applet is used for maximizing the video real estate
- Multiple patterns of tile layouts include 4:3 and 16:9 aspect ratios can be used in ControlCenter
- Camera switching using a client PC mouse, PC keyboard or CCTV keyboard
- Camera sequences
- Supports remote viewing over the internet using the Gateway and Transcoder services

Live Audio Monitoring

- Audio inputs, such as microphones, can be monitored using computer speakers on the ControlCenter client workstation. They can also be monitored using audio outputs, such as speakers, connected to the network via audio hardware decoders
- Audio inputs can be linked to video cameras for combined audio-video monitoring or be monitored independently
- Volume, mute and other audio controls

Recording

- Record video from any supported camera or edge device in any resolution and profile
- Record independent or video linked audio inputs
- Support for multiple recording triggers: manual, schedule, alarm-based, motion based and event-based. These recording reasons are saved as part of the clips' metadata
- Dynamically change record settings based on motion, alarm, or other events
- Support for pre and post alarm and pre and post event recording
- Control the recording retention time – how long clips remain archived before being overwritten—per camera and per type of recording trigger
- Lock clips that should be kept indefinitely
- Recording profiles and schedules can be set individually per stream (audio or video)

Playback from Archive

- Support for multiple concurrent video and audio playback
- Support for Synchronized playback of multiple concurrent video and audio clips
- Archives can be queried based on scenes; date and time; recording reasons/triggers; bookmarks and incidents; motion smart search and other motion search methods
- Increase or decrease playback speed and use reverse playback to examine clips from end to start. Support for frame by Frame playback
- The ControlCenter timeline provides a visual indication of the current frame's time and position, the playback speed and metadata such as recording triggers and bookmarks
- The ControlCenter timeline provides video and audio clip navigation capabilities such as jump-to-time, change of speed and direction, change of timeline resolution and more

Export

- Video and Audio can be exported to a DVTel proprietary file format, providing an encryption protected SHA-1 digital signature for evidence management purposes
- Video can be exported to an AVI file using industry-standard codecs, with or without audio
- Audio can be exported in a standard WAV format

Virtual Matrix

- Support PTZ user hierarchy to determine which users have priority over other users when controlling PTZ domes
- Camera switching from any keyboard or workstation to any viewing tile or analog monitor the system Sequences
- Salvos – available with Layouts in ControlCenter or groups of analog monitors
- Guard Tours (layout tours)
- Complete PTZ control, including control of presets, patterns, auxiliaries, PTZ lock
- CCTV keyboard support

Events and Actions

- Event logging within the audit trail database
- Support for automatic execution of actions in response to events.

Alarm Management

- Support for creation and configuration of an unlimited number of alarm types
- Alarms can be triggered automatically by the system in response to any event, according to the administrator's definitions
- Alarms can be triggered manually by users
- ControlCenter displays an alarm list with detailed alarm states
- Alarms may display video and audio content to the user, including live and archived footage and maps. Alarms can also be associated with a pre-defined procedure URL page
- ControlCenter can display footage of multiple alarms concurrently in different tiles
- The user can snooze, forward and acknowledge alarms
- Alarms can trigger recording of pre-alarm and post-alarm periods
- Alarm recording is marked with automatic bookmarks

User Management

- Solus VMS supports user management capabilities, security authentication and privileges

Motion Detection

- Motion detection is supported in the following modes:
 - * Full screen or zones on the Archiver, for all DVTel IP cameras and encoders, excluding the value line cameras.
 - * Edge based motion detection with zones for most of the 3rd party edge devices as well as DVTel cameras
- Motion Smart search, allowing the user to define a region of interest to query the system for all the motion incidents that have occurred in that region during a certain time period

Remote Connectivity

- Users can connect to multiple Solus systems from a single client application
- Thanks to the Gateway and Transcoder server, video can be viewed even over limited bandwidth connections, even when connecting through internet connections

Solus VMS

Turnkey, Single Server VMS

System Components

Services

Directory – the system's central administration and configuration database

EventDistributor (EDB) – intelligent rule based switching of events and actions

Archiver – records video, audio and meta data and manages edge devices

SafRun – watchdog service

Gateway and Transcoder – for remote connectivity, usually over the internet or limited bandwidth connections

Client Applications

ControlCenter – the operator command and control interface and a player for live, archived and exported multimedia and case management

AdminCenter – the system configuration interface

QuickControl Center - allows you to connect to your system with no installation required. Save the file to your desktop, or any other folder, and double click it to start operating your system, enjoying the ControlCenter full-fledged functionality. QuickControl Center is also a portable stand alone player

VMS Solution Includes:

Feature Rich Software – Enterprise level features and functionality in an SMB package providing ease of installation, training, maintenance and usability

Hardware - Server and Storage Included (see specifications)

Camera Connections – 8, 16, 24, 32 channel systems

User Connections – 2 users for 8 and 16 channel systems, 3 users for 24 channel systems, and 4 users for 32 channel systems

Keyboard Connections – 1 keyboard connection for 8 and 16 channel systems, 2 keyboard connections for 24 and 32 channel systems

Documentation – Solus VMS manuals and guides

Solus VMS Turnkey Solution Specifications

Platform – Dell Precision T3500

Operating System – Windows XP PRO SP3

CPU - E5520 Processor 2.26GHz 8M cache

Memory - 3GB, DDR3 ECC SDRAM Memory 1067MHz

Video Card - 256MB PCIe x16 NVIDIA NVS 295 with dual Monitor support (dual DVI-D connectors)

Database – SQL Express 2005, included with the Solus VMS software

System Hard Drive - 80GB SATA, 10K RPM, 3.0 Gb/s 2.5 inch

Optical Drive - 16X DVD+/-RW

Multimedia Storage – 1TB for Solus-HW-8, 2TB for Solus-HW-16, and 4.5TB for Solus-HW-24 and Solus-HW-32 – all drives are SATA 3.0Gb/s, 7200 RPM

Onboard NIC and Sound Card

Dual Oriented Server - Desktop or Rackmount



	Solus VMS 8	Solus VMS 16	Solus VMS 24	Solus VMS 32
Number of Channels	8	16	24	32
Camera Pack +8 (not to exceed 32)	+8	+8	+8	N/A
Part Number for VMS	SOLUS-HW-8	SOLUS-HW-16	SOLUS-HW-24	SOLUS-HW-32
Raw Multimedia Storage	1 TB	2 TB	4.5 TB	4.5 TB
Part Number for Camera Pack	SOLUS-8-CAM	SOLUS-8-CAM	SOLUS-8-CAM	N/A

Decoding Options Are Available. Contact your Regional Sales Manager for details.